INSTRUCTION MANUAL

CONTENTS

WARRANTY

DISCLAIMERS

- The Xchange Box will not read manufacturers' alphabet memory cards.
- All designs must fit inside the sewing hoop capabilities of your machine.
- Some designs may have stitches that cannot be read correctly into the Xchange Box.
- The Xchange Box cannot warrant the quality of third party digitizers.
- Any user of the Xchange Box should adhere to applicable license agreements of all third parties of the designs.
- This product is not to be used to violate copyright, trademarks or other intellectual property rights of third parties.
- This product can read from embroidery cards, disks or hard drive but will only save designs to an official Xchange Box rewritable memory card.
- Inserting the wrong card type or any foreign object other than an embroidery memory card into any card slot could bend connector pins and damage the Xchange Box. Connector pins are not covered under the Limited Warranty.
- Each card will access 120,000 to 180,000 stitches. It is possible that some designs may have more stitches than a card will allow.
- Not all designs will work on all machines due to machine capabilities.
- In order to save a design on the rewritable card so that the color displays more realistically on your machine screen, it may be necessary to colorize the design in the Color Editor accessory software.

LIMITED WARRANTY

1. All parts other than connector pins are warranted to be free from defects for a period of one year and will be at the manufacturer's option, replaced or repaired at no charge to you, the consumer, for a period of one year from date of original purchase, provided said parts or machine are returned, transportation prepaid.
2. There is no charge for covered parts or labor when an Xchange Box is returned within 90 days of the original purchase. Proof of purchase date (a copy of the sales receipt) must be included with the machine. The machine will be returned to you, the consumer, prepaid.
3. A flat fee of $50.00 will be charged for service of non-warranted parts when returned after 90 days and before 365 days from the date of original purchase. Proof of purchase date, copy of sales receipt, check or money order payable to: GN TECH AUTHORIZED SERVICE CENTER,

   > GN Tech Support
   > 2751 Electronic Lane
   > Dallas, TX 75220

   for $50.00, must be included with the machine. The Xchange Box will be returned to you, the consumer, freight prepaid.
4. This warranty does not cover bent connector pins.
5. This warranty does not cover postage, transportation to a service center, or service provided by anyone other than designated service center.
6. After one year, service may be obtained by contacting your designated Elna Service Center. An estimate will be provided prior to repair.
7. THIS LIMITED WARRANTY IS THE EXCLUSIVE WARRANTY AND ALL OTHER

WARRANTIES, WHETHER EXPRESSED OR IMPLIED, ARE HEREBY DISCLAIMED, INCLUDING WITHOUT LIMITATION, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.

8. This warranty is in effect provided the Xchange Box is used only for normal household sewing purposes and not commercial use, and given reasonably good care. The manufacturer is also not to be held responsible for damage, normal wear, accident, abuse, neglect, acts of God, or if the Xchange Box has been repaired (worked on) by unauthorized personnel.
9. Any machine returned:
   a. Must be packed securely to avoid damage in shipping. We suggest using the original carton and non-static styrofoam packing.
   b. Shipping charges to be paid by sender.
   c. To protect you against damage in shipment, the Xchange Box should be insured for full value.
   d. Proof of purchase (a copy of the sales receipt) must be included.
   e. Be sure to include sender's name and address (yours) on outside and inside of carton.
   f. Please specify problem.
10. Warranty only applies to the Xchange Box. Warranty doesn't apply to incidental or consequential damages including, but not limited to, embroidery cards, embroidery machines, garments or other soft goods.
11. This warranty is not transferable and extends only to the original purchaser when new and when purchased from a duly authorized dealer. This warranty is in lieu of all other warranties. The manufacturer is not responsible for any representation, expressed or implied other than those contained herein.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

This warranty disclaims liability for incidental, or consequential damages, which apply during and after the warranty period. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

IMPORTANT INFORMATION: REGULATIONS

Federal Communications Commission Compliance Notice (for U.S.A. only)

This equipment has been tested and found to comply with the limits for a Class B digital device pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
   – Reorient or relocate the receiving antenna.
   – Increase the separation between the equipment and receiver.
   – Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.

– Consult the dealer or an experienced radio/TV technician for help.

Important - About the Interface Cable
This equipment has been certified to comply with FCC standards, which are applied to the U.S.A. only. A shielded interface cable should be used according to FCC 15.27 (C)

Caution
Changes or modifications not expressly approved by the manufacturer or local sales distributor could void the user's authority to operate the equipment.

**Canadian Department of Communication
Compliance Statement
(for Canada only)**

This digital apparatus does not exceed the Class B limits for radio noise emission from digital apparatus as set out in the interference-causing equipment standard entitled "Digital Apparatus", ICES-003 of the Department of Communications

**Radio Interference
(220-240V only)**

This machine complies with EN55022 (CISPER Publication 22)/Class B.

INSTALLATION

INCLUDED WITH XCHANGE:

1   Xchange Box
1   SmartMedia Card
1   Instruction manual
1   Xchange Box Software on CD-ROM - includes Color Editor
1   USB Cable

COMPUTER REQUIREMENTS

Pentium II Processor
16 MB RAM
5MB hard drive space
Windows 98 or above
CD-ROM Drive
Display 800 X 600 or better
Mouse
USB Port

DRIVER INSTALLATION

1. Turn computer OFF.

2. Plug flat end of USB cable into USB port, found in the front, back or side of your computer.

3. Plug square end of your USB cable into the back of your Xchange Box.

4. Turn computer ON.

5. The screen displays "New Hardware Found." Insert your installation CD into the drive and click **Next.**

6. Click "**Search for suitable driver**" and click **Next.**

7. Select only "CD-ROM drives" and click **Next.**

8. After Windows has found the driver, click **Next** to start the installation process.

9. Finally, select **Finish.** Your driver installation is completed, and you are ready to install your Xchange Box software.

SOFTWARE INSTALLATION

1. From the Windows desktop **close all open programs.**

2. Place the Xchange Box CD in the CD-ROM drive.

3. From the Windows desktop, click on the **Start** button.

4. Click on the **Run** button.

5. At the Run prompt, type the letter of your CD-ROM drive followed by Setup. (Ex: D:\SETUP or E:\SETUP). You may also press the **Browse** button and click on the CD-ROM drive and the setup.exe file. When the setup.exe file is highlighted, press **Open.** This will copy the command to the command prompt. Next press the **Return** or **Enter** key.

6. Click **Next**.

7. Click **I Accept** and **Next**.

8. Click **Next**.

9. Click **Install**.

10. Click **Finish**.

The next time you plug in your Xchange Box, Windows will automatically recognize your Xchange Box driver.

Note

Microsoft's Logo compatibility testing is put in place to ensure that users do not incur problems with equipment manufacturers' products. While the Xchange Box is in the process of gaining "formal" Microsoft approval, it has been tested for use under the Windows XP operating system and is Windows XP compatible. The Xchange Box driver should not yield any problems, therefore, select "Continue Anyway" when this warning appears.

More information about Microsoft Logo testing can be found at:
http://www.microsoft.com/WINLOGO/ hardware/digitalsignature.asp

Warning! – Disconnect first!

If you use **Windows 2000, Millennium Edition (ME), or XP,** you will see this icon

appear at the bottom right corner of your screen (near the clock). Before unplugging your Xchange Box, first double-click this icon, select the "USB Conversion Box," and then click "Stop." It is now safe to unplug your Xchange Box.
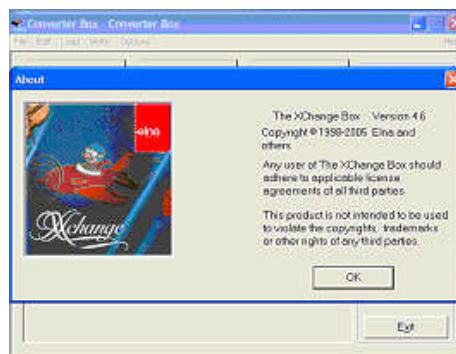
NOTE: If you fail to stop your Xchange Box before unplugging it, you will have to reinstall the driver from your installation CD.

START PROGRAM

To start the program, either double click the Xchange icon on the desktop **OR**:

1. Go to **Start.**

2. Click on **Programs.**

3. Click on **Elna.**

4. Click on **Xchange Box.**

Xchange Box appears on your screen as shown below. Your Xchange Box and software is properly installed and ready to use.

If you receive any errors when loading the Xchange Box software, call your designated technical support office.

TROUBLESHOOTING - NO COMPORT ERROR MESSAGE

If you get a message on your screen saying, "Cannot open comport..." this usually means the USB driver is not installed correctly. Follow the following steps to reinstall the driver.

1. With the computer turned on, unplug the USB cable from the computer while it is on.

2. Turn off your computer.

3. Plug the USB cable back into the computer.

4. Turn on the computer.

5. A Microsoft message stating, "New hardware found," appears.

6. Insert the Xchange Box CD into the CD-ROM drive and cancel installation if it autoruns.

7. Now follow the on-screen prompts and directions in the "Driver Installation" section on page 6.

FILE FORMATS

The Xchange Box will open these format extensions.

EMD (*.emd) – an expanded file format that works with Elna Xpressive and the Elna Xpressway.

JEF (*.jef) – an expanded file format associated with Elna 8600, Elna 8200 and later generations of Janome embroidery software.

SEW (*.sew) – an expanded file format associated with Elna Envision Scan PC, Dream Vision, Janome Scan-n-Sew PC and Customizer 2000.

GNC (*.gnc) – a scalable format used with Amazing Designs software.

DST (*.dst) – an expanded commercial file format developed by Tajima. It does not retain colorization.

EXP (*.exp) – an expanded commercial file format. It does not retain colorization.

HUS (*.hus) – an expanded file format associated with Viking DOS Customizer and Viking Customizer 95.

CSD (*.csd) – an expanded file format associated with DOS HuskyGram, Toyota POEM and Singer Embroidery Unlimited.

PCS (*.pcs) – an expanded file format associated with Pfaff PC-Designer V2.0 (PC), and Pfaff PC-Designer V2.1 (PC).

PES (*.pes) – an expanded file format associated with Babylock Palette, Bernina Wizard and Brother PE-Design.

PSW (*.xxx) – an expanded file format that works with Singer Professional Sew Ware.

SHV (*.shv) – an expanded file format associated with the Husqvarna Viking Disk Manager.
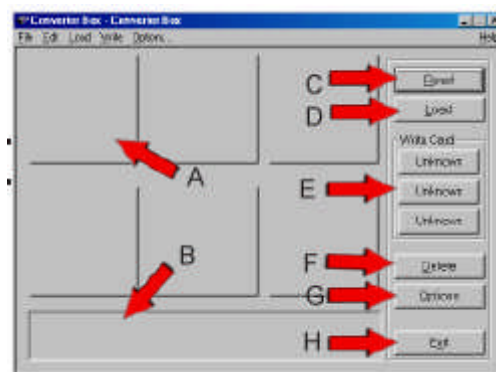
XCHANGE BOX

GENERAL OPERATION

1. Make sure your Xchange Box has power. To do this, simply verify that the green light on the front of the Xchange Box is on.

2. When you double click the icon to start the Xchange program, it takes a few seconds for the program to open. Make sure you have only opened the program one time.

   You must only have the program opened one time in order to set up communication between your computer and the Xchange Box.

   To ensure the program hasn't been opened twice, look at the bottom of your monitor screen between the "Start" button on the left and the clock on the right. If you see a square with "Converter Box" and a picture of the box more than once, you need to exit one of the programs before you may continue.

3. Click **OK** to enter the program. The Converter Box screen offers you **Read, Load** and **Write Card** buttons. The main screen also has **Delete, Options** and **Exit** buttons. The **Load, Write Card** and **Delete** buttons will be inactive until a design has been read into the software or a card inserted into the slot.

A. Designs are displayed in these six boxes.
B. Dialog Box – as you move your mouse over any button, information will appear
C. Read designs from your computer
D. Load designs from a memory card
E. Write designs to writable card
F. Delete individual designs
G. Options – programming Write buttons and File Open Preferences
H. Exit program

UNDERSTANDING THE XCHANGE BOX SLOTS FOR ELNA PRODUCTS

Slot 2   Elna 8200 Xperience, Elna 8600 Xplore (PCMCIA Cards and .JEF files)

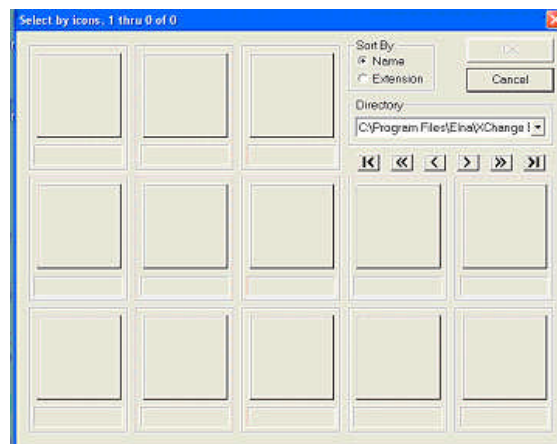Slot 3   Elna Xquisit and Xquisit II (SmartMedia Cards, .EMD files)

Slot 4   Elna CE20, 8007, 8006 (Memory Cards, .SEW files)

READ

The **Read** function lets you select a design from a file. You can read designs from a floppy disk, CD, or your hard drive. The Xchange Box software is conversion software. This means that you can "read" GNC, PES, HUS, CSD, EMD, SHV, JEF, SEW, XXX and PCS file extensions into this software. The **Read** function also reads Zip files without you having to unzip them first.

Remember, the box is a design file transfer system for sewing formats. You cannot read bmp, jpg, or any kind of clip art into this program. There is no digitizing software included.

Click the **Read** button or click **File**, **Open** on the navigation bar, and this window appears.

Click the down arrow to the right of the "Directory" box to find the drive where your designs are stored. Keep clicking until you find the file you wish to read. Click a design and click OK to load it into one of the six squares on the Converter Box screen. (Or click Cancel to exit the screen.) Click Read again to choose another file. You can keep selecting files one by one until all 6 squares are full. "Sort By" name or extension.

IK	Navigates to beginning of the selected directory.
«	Navigates to the previous page of designs.
<	Navigates back one design.
>	Navigates forward one design.
»	Navigates to the next page of designs.
>I	Navigates to the end of the directory.

LOAD

The **Load** function enables you to take designs from most embroidery machine manufacturers' memory cards into the software and write them back to a card for your embroidery machine.

Not all pre-programmed memory cards are readable. Some manufacturers have disabled this function for their cards.

1. Insert the preprogrammed memory card into the **slot** and the **Load** button will highlight.
2. Click the **Load** button or **Load** on the navigation bar and type the number of the desired design. Click **OK** to load that design. Click **Load** again to continue adding designs.
3. Or click **Load, Browse;** a picture of each design on the memory card will be displayed. (Do not attempt to do anything else until all of the designs have been read.) Select the design you want and click **Load.** You can keep loading files one by one until all 6 squares on the Converter Box screen are full. When you are finished selecting designs from the "Card's Directory" page, click **OK.**
4. **Cancel** will close the "Load" functions.

*Some machines require designs to split into multiple files depending on the number of colors and stitch count. If your design doesn't appear to have all of its components, then you may need to select the next file on the card to complete your design. Use the **Browse** button to view all designs on the card.*

Once you have loaded your designs from the preprogrammed card, you need to remove it from the slot.

Since no universal color palette exists for home or professional embroiderers, Xchange Box recognizes color breaks in the designs you've loaded and substitutes a new color palette. If you'd like to see your design in colors that more closely resemble your original, use Color Editor (see page 15).

DELETE

The **Delete** button is used to remove a design from any of the 6 squares on the Converter Box screen. Click the design you want to delete; click the **Delete** button and the design disappears. (Or click, **Edit**, **Delete** and select a design to delete.)

*Also under **Edit** you'll find **Transfer**. This allows you to transfer designs to Color Editor (see page 15).

OPTIONS

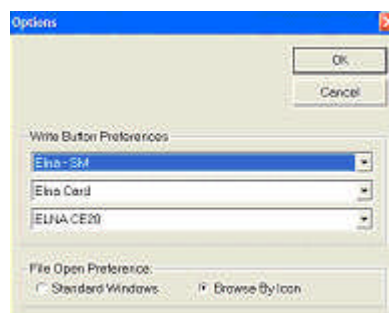Click the **Options** button or **Options** on the navigation bar to:

- pre-set the "Unknown" Write buttons to reflect your machine type. You can program up to three machines.

  Click down arrow in the "Write Button Preferences" field, and a database of available machines is displayed. Scroll through the list until you find your machine and select it. Click **OK** to accept (or **Cancel** to close the window). The machine information will now replace the word "Unknown" on the "Write" button on the Converter Box screen.

  If you do not see your machine model, select a different machine by the same manufacturer with the same sewing format.

  Once you set the "Write" button to a certain machine it will remain set until you change it.

- set File Open Preference – this programs how files appear when you click the Read button

  - o by name (Standard Windows) or
  - o by icon (Browse By Icon)

WRITE

See **Options** (page 13) before attempting to write to a card.

Insert a writable card into the slot in the box (see page 10). (Place only one card in the box at a time.) Be sure you have removed any card you've loaded designs from.) A "Write Card" button becomes active. You must have the appropriate writable card to be able to write designs for each format.

Click the active "Write Card" button to save the designs to the card. (When using **Write** on the navigation bar, Write 1, Write 2 and Write 3 correspond to the programmed Write Card buttons.) You will be given a warning that the card will be overwritten and you will be erasing all of the previously written designs and replacing them with the new ones. Click **Yes** and the transfer will start. (Click **No** to cancel this operation.) You will now see a red light on the box indicating that the Xchange Box is "Busy" transferring the designs to the card.

Do not remove your card while the red light is on.

You will see a status bar with numbers counting up "Writing block…. ". There is no specific number at which the transfer will stop.

When the Xchange Box has completed writing the designs to the card, it will display a "Success" window. Click OK. You are now ready to take the card to your machine and embroider.

If you'd like to see or print a template of your design, go to Color Editor (see page 15).

This software will not split designs for multi-position hoops. You can only save designs to your writable card in the size that your machine will sew in a single sewing field.

Some machines require designs to split into multiple files depending on the number of colors and stitch count. If your design doesn't appear to have sewn out completely, then you may need to select the next file on the card to complete your design.

EXIT

Clicking the **Exit** button (or **File**, **Exit**) will close the Xchange Box software.

Reminder: Close Xchange Box hardware if disconnecting.

COLOR EDITOR

The Color Editor software is included with the Xchange Box so that you can use the "Color Bar" to recolor your designs.

OPENING COLOR EDITOR

To start the program, either double click the Color Editor icon on the desktop OR:

1. Go to **Start.**
2. Click on **Programs.**
3. Click on **Elna.**
4. Click on **Color Editor.**

NAVIGATION BAR

Directly below the title bar is the navigation bar with these four drop-down menu headings:
File
View
Options
Help

FILE MENU

Open

Click **File**, then **Open** or (**Ctrl+O**) or .

This displays the "Open" window along with your default folder or directory setting.

Click on the down arrow to the right of the "Look in" box to show the list of sub-directories on your computer. Select the folder that contains your designs.

When you click on a file, the file name will appear in the field box to the right of "File name".

To the right of "Files of type" you can choose what type of embroidery format you wish to open.

Elna Xquisit (*.emd)
Elna 8600, 8200, Janome 10000 (*.jef)
Elna/Janome/New Home (*.sew)
GNC: GN Scalable (*.gnc, *.cnd)
Toyota Poem/Singer EU/Dos HuskyGram (*.csd)
Baby Lock/Bernina Deco/Brother/ Simplicity (*.pes, *.pec)
Pfaff PC-Designer V2.0 & V2.1 PC (*.pcs)Split at 16 colors
Pfaff Macintosh (*.pcm)
Singer PSW (*.xxx)
DOS Expanded (*.exp)
Tajima (*.dst)
Viking DOS Customizer/ Customizer 95 (*.hus) Split at 12 colors

Viking VIP (*.vip)
Viking Professional Embroidery System (*.shv)
Zip archives (*.zip)

Click the **Open** button to load the design or click the **Cancel** button to cancel the "Open" command. Once you have loaded a design, the file name will appear in the title bar at the top of the main screen.

OR

Double click on a design on the Converter Box screen to transfer it directly to Color Editor. You can also go to **Edit**, **Transfer** on the Converter Box screen to select a design to transfer.

Save

Click **File**, then **Save** or (**Ctrl+S**) or 🖫 to save changes to an existing file. The "Save" command saves your design under the same name, replacing the previous version.

If the design was sent from the Xchange Box, it can only be saved back to the Xchange Box, not to your computer or other writable media.

Save As

Click **File**, then **Save As** to name your design and save it to the desired folder.

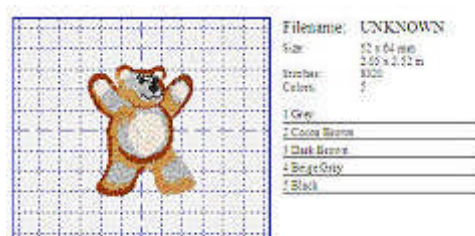The "Save As" feature will only allow you to save the file within the same format it was opened.

Print

Click **File**, then **Print** or (**Ctrl+P**) or 🖨 to print a copy of your design.

Page 1 of the print out will include a smaller version of the design, the file name, the stitching size, the number of stitches and the number of colors. Page 2 is a full-size template of the design.

Print Preview

Click **File**, then **Print Preview** to display on the screen how the printed page will appear.

On the right side of the Print Preview screen you will notice the file name, the size of design in millimeters and inches, stitch count, number of colors and the order the colors are to be sewn out.

Click the **Print** button to print the instruction sheet to your printer.

Click the **Next Page** button to display a template of the design. The **Prev Page** button will take you back to the previous page.

Click the **Zoom In** button to zoom in or the **Zoom Out** button to zoom out.

Click the **Close** button to close the "Print Preview" screen.

Print Setup

Click **File**, then **Print Setup** to bring up the print setup dialog box.

This dialog box allows you to change the type of printer, properties, paper size and orientation.

Exit

Click **File**, **Exit** to close Color Editor.

If you have not saved your work, you will be prompted to do so.

VIEW MENU

Realistic View

Click **View**, **Realistic View**. Turn on Realistic View to view the final results of your embroidery. A checkmark denotes this view is active. Turn off Realistic View to view stitches only.
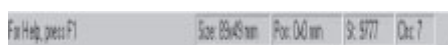
Toolbar

The "Toolbar" is the row of icons found at the top of the screen. As a default, the Toolbar is displayed.

Click **View,** then **Toolbar** to add or remove the toolbar from the screen. A checkmark denotes the toolbar is active.

Status Bar

The "Status Bar" is the row of information found on the active screen. As a default, this information is always "On".

Click **View,** then **Status Bar** to add or remove the status bar from the screen. A checkmark denotes the toolbar is active.
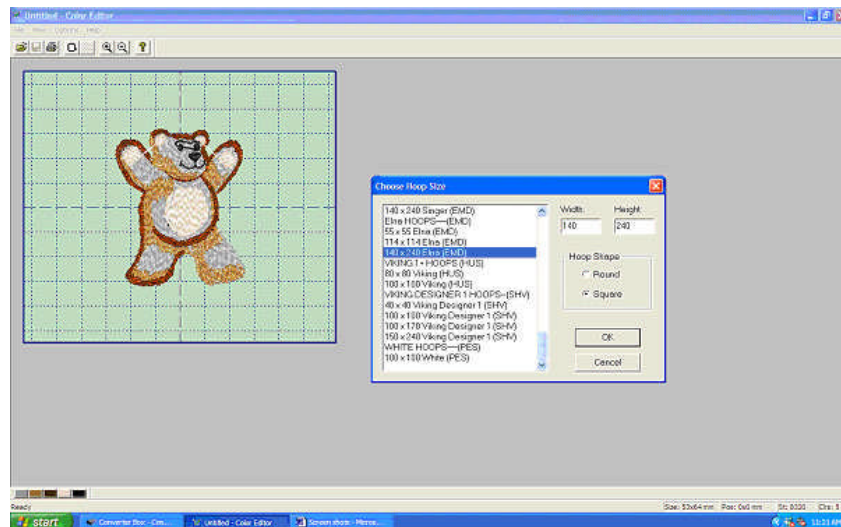
The "Status Bar" provides information about four important items.
- "Size" – displays the size of the design
- "Pos" – displays the position of the design relative to the center of the hoop
- "St" – displays the stitch count of the design
- "Clrs" – displays the number of colors of the design

OPTIONS MENU

Hoop Size

Click **Options,** then **Hoop Size** or ⬜ to select the brand of machine and hoop size as shown below.

The workspace grid will increase or decrease in size to show the work area available for the selected hoop size.

Each square of the grid equals 10 mm X 10 mm. The design you select will not be written to a card if the design size exceeds the maximum allowable hoop size for your machine.

Density Settings (for GNC Designs Only)

Click **Options,** then **Density Settings** or ▨ to bring up the dialog box. Density Settings only work with GNC designs.

Preferences

Click **Options,** then **Preferences** to bring up the dialog box. Several options can be selected depending on the brand of sewing machine you are using.

The setting for Elna/Janome/New Home software will ensure that when you save to *.SEW format it will be compatible with Scan-n-Sew PC V1.x. The Dream Vision/ Customizer 2000 when selected will enable 78 colors for Elna/Janome/New Home in your color palette.

Click **OK** to apply selected preferences. Click **Cancel** to close the dialog box preferences without making any changes to the software.

HELP MENU

About Color Editor

Click **Help,** then **About Color Editor** or to display the version number of Color Editor you are using.

COLOR BAR

The "Color Bar" enables you to change the colors of the design on the screen in their stitching order. Click on any of the boxes to change the display color represented by that box.

By clicking on the color you wish to change, the name of the color will appear in the "New Color / Change To" box

Click **OK** to change the selected color to its new color. Click **Cancel** to close the color select function without changes.

There are five color palettes available to colorize designs according to machine type.

Default	=	64 colors
Elna/Janome/New Home	=	78 colors
Baby Lock/Bernina/Brother	=	64 colors
Husqvarna/Viking	=	29 colors
Pfaff	=	16 colors